

Amendments to Claims

Please amend the claims as detailed below. This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-5. (Cancelled)

6. (Previously presented) The standardized peripheral apparatus of claim 41, wherein the jet actuator is positioned substantially near the inlet vent.

7. (Cancelled)

8. (Currently amended) The standardized peripheral apparatus of claim ~~3441~~, wherein the jet actuator comprises a selected one of a piezoelectric synthetic jet actuator or an electromagnetic synthetic jet actuator.

9. (Currently amended) The standardized peripheral apparatus of claim ~~3441~~, wherein the jet actuator is approximately between 2-3 mm high.

10. (Currently amended) The standardized peripheral apparatus of claim ~~3441~~, wherein the jet actuator operates on input powers approximately between 10 and 50 milliwatts.

11. (Cancelled)

12. (Currently amended) The standardized peripheral apparatus of claim ~~4441~~, wherein the jet actuator and at least a portion of the integrated circuit are located substantially in a first air flow chamber.

13. (Currently amended) The standardized peripheral apparatus of claim 12, wherein the first air flow chamber is defined in part by the second portion of the ~~top~~ surface on which the inlet vent is disposed; and the first portion of the ~~top~~ surface on which the outlet vent is disposed defines a second air chamber.

14. (Original) The standardized peripheral apparatus of claim 13, wherein the first air flow chamber is flow-coupled to the second air flow chamber.

15. (Cancelled)

16. (Currently amended) The standardized peripheral apparatus of claim ~~3441~~, wherein the apparatus is a selected one of a data storage device or a communication interface adapter.

17.-22. (Cancelled)

23. (Previously presented) The standardized peripheral apparatus of claim 36, wherein the connector comprises a selected one of a 32-bit Cardbus connector or a universal serial bus connector.

24.-33. (Cancelled)

34. (Currently amended) ~~A~~The standardized peripheral apparatus of claim 41, comprising:
a board;
an integrated circuit coupled to the board;
a case, encasing the integrated circuit and the board, having a form factor including a plurality of external dimensions compatible with a Personal Computer Memory Card International Association (PCMCIA) standard having a plurality of specifications governing the form factor and the external dimensions; and
a thermal management arrangement including:
a vent on the case to at least facilitate an exhaust of heat convectively emitted from the integrated circuit into an ambient; and
a jet actuator coupled to the board to provide an air current to at least facilitate the exhaust of the convectively emitted heat through the vent, wherein the air current is in convective communication with the integrated circuit.

35. (Currently amended) The standardized peripheral apparatus of claim 441, wherein a partition of the at least one partition is connected orthogonally to the board.

36. (Currently amended) ~~A~~The standardized peripheral apparatus of claim 41, further comprising:
a board;
an integrated circuit coupled to the board;
a case compatible with a Personal Computer Memory Card International Association (PCMCIA) standard, encasing the integrated circuit and the board, having:
an outlet vent disposed on a first portion of a surface of the case to facilitate exhaust of heat convectively emitted from the integrated circuit, into an ambient; and
an inlet vent disposed on a second portion of the surface of the case, to facilitate an intake of air from the ambient;
a jet actuator disposed inside the case, to at least facilitate an air flow over the integrated circuit in a general direction from the inlet vent to the outlet vent; and
a connector, to directly couple the standardized peripheral apparatus to a host device in a substantially rigid relationship.

37.-38. (Cancelled)

39. (Currently amended) The standardized peripheral apparatus of claim 3441, wherein the apparatus is a Type I, a Type II, or a Type III PC Card.

40. (Cancelled)

41. (Currently amended) A standardized peripheral apparatus comprising a board; an integrated circuit coupled to the board; a case, encasing the integrated circuit and the board, having a form factor including a plurality of external dimensions compatible with a Personal Computer Memory Card International Association (PCMCIA) standard having a plurality of specifications governing the form factor and the external dimensions; ~~and~~ a thermal management arrangement including a vent ~~disposed on an end of a top surface of~~ the case to at least facilitate an exhaust of heat convectively emitted from the integrated circuit into an ambient, and a jet actuator coupled to the board to provide an air current to at least facilitate the exhaust of the convectively emitted heat through the vent, wherein the vent is an outlet vent disposed on a first portion of ~~the top~~ surface of the case; ~~and~~ an inlet vent disposed on ~~the end of and~~ a second portion of the ~~top~~ surface of the case, to facilitate an intake of air from the ambient; ~~and~~ ~~at least one partition disposed inside the case using available space to provide a plurality of air flow chambers.~~

42. (New) The standardized peripheral apparatus of claim 41, wherein the jet actuator assists the air to travel a length of a first air flow chamber passing over a portion of the integrated circuit, to enter a second air flow chamber at the end of the first air flow chamber, to travel a length of the second air flow chamber passing over another portion of the integrated circuit, and to exit through the outlet vent.

43. (New) The standardized peripheral apparatus of claim 41, wherein the inlet vent is designed with an upward flange.

44. (New) The standardized peripheral apparatus of claim 41, wherein the outlet vent is designed with a downward flange.

45. (New) The standardized peripheral apparatus of claim 41, further comprising: a screen placed over the outlet vent.

46. (New) The standardized peripheral apparatus of claim 41, wherein the inlet vent and the outlet vent are rectangular in shape.